

# **EXHIBIT 1**

1                               IN THE UNITED STATES DISTRICT COURT  
2                               FOR THE SOUTHERN DISTRICT OF WEST VIRGINIA  
3                               CHARLESTON DIVISION  
4

5     IN RE: ETHICON, INC. PELVIC REPAIR             )  
6     SYSTEM PRODUCTS LIABILITY LITIGATION         )

6     \_\_\_\_\_ )

7     THIS DOCUMENT RELATES TO THE                 )  
8     FOLLOWING CASES IN WAVE 1 OF 200:             )

) 2:12-MD-02327

8     Barbara A. Hill                                 )  
9     Case No. 2:12-cv-00806                         ) MDL No. 2327

9   )

10    Constance Daino                                 )  
11    Case No. 2:12-cv-01145                         )

) Joseph R. Goodwin

11    Monica Freitas                                 ) U.S. District Judge  
12    Case No. 2:12-cv-01146                         )

12   )

13    Patricia Ruiz                                   )  
14    Case No. 2:12-cv-01021                         )

)

14    Pamela Gray Wheeler                           )  
15    Case No. 2:12-cv-00455                         )

15   )

16    Rebekah Bartlett (Pratt)                     )  
17    Case No. 2:12-cv-01273                         )

)

17    Dawna Hankins                                 )  
18    Case No. 2:12-cv-00369                         )

18   )

19    Patricia Tyler                                 )  
20    Case No. 2:12-cv-00469                         )

20

DEPOSITION OF DOUGLAS GRIER, M.D.

21

March 22, 2016

22

23

Seattle, Washington

24

25

1 A Yes.

2 Q And the TVT Exact uses only laser cut mesh; is that  
3 correct?

4 A I don't know that to be true. I don't know whether or  
5 not they offer both mechanical or laser.

6 Q Okay. You just don't know, as you sit here?

7 A I don't know.

8 Q And the TVT Abbrevio is the new version of TVT-O; is that  
9 fair?

10 A Yes.

11 MR. KOOPMANN: I object just to this  
12 line of questioning as it relates to other products, for  
13 the record. This is supposed to be the TVT, TVT-O, and  
14 TVT-Secur, so --

15 Q (By Mr. DeGreeff) Okay. TVT Abbrevio uses only laser cut  
16 mesh; correct?

17 A I think that's correct.

18 Q Doctor, do you have an understanding of why mechanically  
19 cut mesh isn't used in those products?

20 A Well, I think the reason that there was a change in the  
21 product to laser from mechanical was to smooth out the  
22 edges so that it may be a little less irritating and  
23 perhaps have less of an inflammatory response of the  
24 tissues.

25 But clinically there's no difference between the

1 two. I've never noticed any difference in the placement  
2 or in the results of whether the sling was mechanical or  
3 laser cut. And --

4 Q And, Doctor, do you -- is that something you track within  
5 your office?

6 A I track all my patients in the office.

7 Q Do you track whether you're putting in laser cut or  
8 mechanical cut mesh?

9 A Well, if I'm putting in a TVT Abbrevio, then I assume that  
10 it's laser cut.

11 Q Okay. What if you're putting in one of the other  
12 products?

13 A I don't track it because I don't find it clinically  
14 relevant.

15 Q Okay. So it's not something you track within your office  
16 whether you're putting in mechanically or laser cut mesh?

17 A I don't actively track it because it's not -- it's -- I  
18 have no concern of one mesh cut or the other because I  
19 consider them equivalent. My experience with them is  
20 equivalent. But I do know that if I'm putting in a TVT  
21 Exact or an Abbrevio, that it's laser cut.

22 Q Okay. I guess my question's pretty simple. Do you or do  
23 you not track whether you're putting in a laser cut or  
24 mechanical cut mesh?

25 MR. KOOPMANN: Object to form. Asked

1 and answered.

2 THE WITNESS: I don't track it.

3 Q (By Mr. DeGreeff) And I think you mentioned that the  
4 reason for the switch from laser cut to mechanical was  
5 because the mechanical cut mesh can cause more  
6 irritation, given it's not as smooth on the edges?

7 A That's the theoretical consideration, yes.

8 Q And, Doctor, given that you don't track whether you're  
9 putting in laser or mechanical cut mesh, as you sit here,  
10 you can't say whether there's -- whether you're having an  
11 equivalent number of complications with one versus the  
12 other; correct?

13 A I know of no literature that shows any comparative  
14 difference between the two cuts, so I'm not aware that  
15 there is a problem for me to track. And in all my  
16 colleagues around the country, I know of no one who's  
17 tracking the results between mechanical and laser cut  
18 because there's no clinical significance because no one  
19 has identified there to be a problem.

20 MR. DEGREEFF: Can you read back my  
21 question?

22 (Question on Page 32, Line 8  
23 read by the reporter.)

24 THE WITNESS: Yes.

25 Q (By Mr. DeGreeff) Is there -- is laser cut stiffer than

1 Q Any documents in there specifically that you remember  
2 reading front to back?

3 A At this -- well, the IFU is in there, so I have read that  
4 in the past front to back. I read the historical  
5 documents about how TVT first was developed. And those  
6 are the ones that I remember in particular. There are a  
7 couple PowerPoint presentations that I probably was in --  
8 present for or were delivered to me.

9 Q Doctor, how many of these -- how many of these 34  
10 documents do you think you actually reviewed in full?

11 MR. KOOPMANN: Object to form.

12 THE WITNESS: I can't give you an  
13 exact answer to that, but if you look through it, they're  
14 historical documents, so I don't -- I didn't spend much  
15 time at all with the Internet discussions between the  
16 Ethicon people and the corporation.

17 Q (By Mr. DeGreeff) Did you -- in rendering your opinions,  
18 did you rely at all on internal company documents?

19 A No.

20 Q Why not?

21 A I don't find them necessarily relevant.

22 Q Why are they not relevant?

23 A Well, because a lot of it has to do with research and  
24 development early on in the development of the products,  
25 and quite frankly, it's not -- I don't find it relevant

1 for me in rendering an opinion.

2 Q Did you review any of the design documents for the  
3 product?

4 MR. KOOPMANN: Objection. Form.

5 THE WITNESS: I don't recall design  
6 documents. You mean the original design of the -- of the  
7 mesh?

8 Q (By Mr. DeGreeff) Yeah, the design documents, the  
9 internal design documents for the mesh product?

10 A Well, if you could show me one, I could tell you whether  
11 I've reviewed it or not.

12 Q Well, do you know what I'm talking about when I say  
13 design documents?

14 A Not precisely, no.

15 Q Okay.

16 A Are you talking about before it was submitted to the FDA?

17 Q Well, have you reviewed the design device file?

18 MR. KOOPMANN: Objection. Form.

19 THE WITNESS: I don't recall.

20 Q (By Mr. DeGreeff) As you sit here, do you remember  
21 recalling any -- reviewing any internal Ethicon documents  
22 specifically relating to design of the TVT products?

23 A I'm sure I've looked at several, but none come to mind  
24 specifically.

25 Q Okay. If you think you looked at several, what did those

1 documents look like? What did they tell you?

2 A Oh, I don't recall. I looked at them prior to the Perry  
3 trial, I would imagine.

4 Q Okay. So -- and the Perry trial was about the TVT  
5 Abbrevio; correct?

6 A Correct.

7 Q And we're not here -- you're not rendering any opinions  
8 in this -- at this point generally about the TVT Abbrevio?

9 A No.

10 Q So my question is about design documents that would be  
11 relevant to the products that we're here about. Do you  
12 remember reviewing any of those design documents?

13 A Not specifically.

14 Q Well, not specifically. Do you remember reviewing any at  
15 all?

16 A If you put one in front of me, I can tell you whether I  
17 have or not.

18 Q Well, Doctor, you've got them -- are they on your  
19 reliance list?

20 A Some may be.

21 Q And did you review everything on your reliance list?

22 A I've -- in a general sense, yes. Specifically, I mean,  
23 there's a lot of documents, and some I may have just  
24 looked at the title and then what the conclusions were,  
25 and if something was interesting in there, I would go



1 A This binder contains multiple studies on TVT. It has my  
2 general report in it, and it has articles that I reviewed  
3 for my opinion. It has the different specialty body  
4 position papers on the use of mesh and different papers  
5 comparing Burches. It has an article on abdominal wall  
6 hernia repair using mesh.

7 Q And, Doctor, you don't have to go through every one of  
8 them in general. I'm just kind of trying to figure out  
9 in general what categories of documents are in there.

10 A Well, scientific papers. Papers that are produced by the  
11 different specialty bodies, like AUGS and SUFU, and  
12 multiple articles and abstracts. There's an article on  
13 the elongation characteristics of TVT Prolene. There's  
14 an expert report on mechanical mesh versus laser cut.  
15 There's an IFU for TVT-Secur.

16 There is a research and development memorandum on  
17 mesh for TVT-O. There is some comment on FDA hearing in  
18 2011, the FDA executive summary. A Cochrane review of  
19 midurethral slings. Long-term efficacy of TVT --

20 Q Maybe we can do this. Is this all articles and clinical  
21 studies? Is that essentially what's in there?

22 A Yes.

23 Q Okay. And that -- is this a binder that you prepared,  
24 yourself?

25 A No.

1 Q Who prepared that binder for you?

2 A The attorneys, after sending me these articles for  
3 review.

4 Q Are those all articles that the attorneys sent you?

5 A Yes.

6 Q Okay. Those weren't articles that you did a systematic  
7 review and found them yourself?

8 MR. KOOPMANN: Objection. Form.

9 THE WITNESS: Well, I'm looking at one  
10 that I wrote, that I was -- I participated in. There are  
11 just multiple studies.

12 Q (By Mr. DeGreeff) That wasn't my question.

13 A Oh, sorry.

14 Q Did you do an independent systematic review and decide on  
15 which articles you wanted to review in rendering your  
16 opinions?

17 A Not this extensive. I've read the literature for the  
18 last ten, fifteen years, and so I keep abreast of it. So  
19 not every article is in journals that I have -- that I  
20 get.

21 Q Okay. So I think the answer to my question is no, you  
22 didn't do an independent systematic review for the  
23 literature that's on your reliance list?

24 A Yes, that's correct.

25 Q And you didn't put together that binder. Defense counsel

1 did.

2 A Correct.

3 Q And defense counsel selected the articles that are in  
4 that binder?

5 MR. KOOPMANN: Objection. Form.  
6 Misstates the record.

7 MR. DEGREEFF: I don't think it does.

8 THE WITNESS: Well, I don't know what  
9 they -- how they selected them.

10 Q (By Mr. DeGreeff) You --

11 A They're not all positive articles.

12 Q Well, that's true too, but you didn't select all of  
13 those; correct?

14 A Correct.

15 Q Those were selected for someone else -- by someone else  
16 for you?

17 A Yes.

18 Q And they were sent to you by defense counsel?

19 A Yes.

20 Q And did you review all of the articles in that binder?

21 A The majority of them, yes.

22 Q Okay. Did you review -- did you rely on all the articles  
23 in that binder?

24 A I relied on all those that I reviewed.

25 Q And which ones -- did you review those that were -- that

1 A My memory, last time I saw him was when I did a cadaver  
2 lab with about ten surgeons from around the country on  
3 the TVT-O. It was our first experience with the TVT-O,  
4 and we were using the device prior to having used it in  
5 our practices.

6 And another article by Leval and Waltigney on the  
7 one-year follow-up on TVT-O. And Leval's white paper on  
8 the TVT-O.

9 Q Who is Leval?

10 A Jean Leval is a Belgian urologist out of Liege, Belgium,  
11 as I recall, and he was the developer of the inside-out  
12 approach for transobturator slings.

13 Q Do you know Dr. Leval?

14 A I met him once. He does not speak English. Talked to  
15 him through a -- an interpreter.

16 Q You met -- did you meet Dr. Leval and Dr. Weisberg at  
17 Ethicon events?

18 A Yes. Yes.

19 Q So fair to say that that binder you're looking at  
20 contains just a bunch of materials that are on TVT-O?

21 A Yes.

22 Q And did you put that binder together, yourself?

23 A No.

24 Q Was that put together for you by defense counsel?

25 A Yes.

1 Q Did defense counsel select the documents that went into  
2 that binder?

3 A Yes.

4 Q Have you reviewed all of the documents in that binder?

5 A Well, I've reviewed them -- a lot of them I've reviewed  
6 before they ever were put in the binder, before I was  
7 ever asked to review them.

8 Q Okay. So my question was a little different than that.

9 Have you reviewed -- and I don't care when you  
10 reviewed them. Have you reviewed all of the lit- -- all  
11 of the documents that are in that binder?

12 A Well, no. The ones I haven't reviewed were the pre-FDA  
13 design documents, which are very tedious, and I didn't  
14 find relevant.

15 Q So fair to say, you did not review the design documents  
16 that were relied on by Ethicon for approval by the FDA?

17 MR. KOOPMANN: Objection to form.

18 THE WITNESS: That's true.

19 Q (By Mr. DeGreeff) Anything else?

20 A Well, there's just a bunch of minutes and discussions by,  
21 I guess, engineers within the -- within the company on  
22 the product specifications and the launch of the product.

23 Q And did you review those?

24 A I did not.

25 Q Why not?

1 A Well, because I don't find it relevant.

2 Q And that's the -- those are memos done by the engineers  
3 who designed the product?

4 A Correct.

5 Q Why did you not find that relevant?

6 A Well, because it's tremendously tedious, and it's not  
7 clinically relevant. It was how they developed the  
8 product and -- the device, and it's kind of too technical  
9 for my interest.

10 Q And you didn't -- so you didn't review that in rendering  
11 your opinions?

12 A No.

13 Q Did you review any documents related to the -- kind of  
14 the -- what you referred to as the tedious portion of the  
15 design of the -- of the document and getting FDA  
16 approval?

17 MR. KOOPMANN: Objection. Form.

18 THE WITNESS: There may be a few that  
19 I reviewed.

20 Q (By Mr. DeGreeff) Which ones? Any as you sit here that  
21 you remember?

22 A My patients' list at home.

23 Q I was wondering how that got in there.

24 A Yeah, that just got -- it fell in.

25 The ones I reviewed were -- see, a lot of this is

1 just -- it's not even in English. It's the documents  
2 that are -- came out of Belgium that aren't even  
3 translated, so I certainly didn't read those.

4 The others were just kind of how the sheath was  
5 developed, not the actual sling, but the sheath that  
6 helps place it. So these -- and, you know, this TVT flow  
7 of process qualifications, I looked at it. It's a very  
8 technical engineering document on the product production.  
9 I'm not an engineer, so it's not relevant to me. There's  
10 just a lot of that. How to package it, what kind of box  
11 it should be in, things --

12 Q So you're not an engineering expert; correct?

13 MR. KOOPMANN: Objection. Form.

14 THE WITNESS: I'm not an engineering  
15 expert, but I am an expert on the use and placement and  
16 management of vaginal mesh because that's what I've done  
17 a lot of.

18 Q (By Mr. DeGreeff) That doesn't make you -- you are  
19 not --

20 A It does not make me an engineer.

21 Q You're not holding yourself out as an expert in the field  
22 of engineering, are you, Doctor?

23 A No, of course not.

24 Q And fair to say, you're not holding yourself out as an  
25 expert in the field of transvaginal mesh design?

1 MR. KOOPMANN: Objection. Form.

2 THE WITNESS: I will say no. I will

3 say, though, that -- that all of us give feedback to the

4 companies that we use mesh, as to what might be better

5 about it.

6 Q (By Mr. DeGreeff) I think we agree. My question is

7 pretty simple. Yes or no, are you holding yourself --

8 yes, no, or you can't answer. Are you holding yourself

9 out as an expert on the design of transvaginal mesh

10 products?

11 MR. KOOPMANN: Objection. Form.

12 Asked and answered.

13 THE WITNESS: Do I answer?

14 MR. KOOPMANN: Go ahead, yeah.

15 THE WITNESS: So I am not a product

16 engineer that has designed mesh products. However, I

17 have used them, and I have opinions about what -- what is

18 good or bad about a particular product, which I have

19 expressed to multiple companies when asked. So -- but I

20 am not an engineer.

21 Q (By Mr. DeGreeff) Let's try this again. Doctor, yes,

22 no, or you cannot answer my question as it's phrased:

23 Are you holding yourself out as an expert in the design

24 of transvaginal mesh products?

25 MR. KOOPMANN: Same objection.



1 A Yes.

2 Q Did you submit it to the -- to the --

3 A FPRMS, yes.

4 Q -- FPRMS?

5 And so given that you had that role, you still don't  
6 remember what that number was?

7 A Oh, it was the number of all the surgeries that you've  
8 done. No, I have no idea what that number is.

9 Q All of the surgeries that you've done since when?

10 A Well, in a six-month -- in a six-month period, but that's  
11 all -- that's general urology, female urology,  
12 whatever -- whatever surgical cases I was doing.

13 Q You also treat males as part of your practice; correct?

14 A Correct.

15 Q What percentage of your practice deals with treating men?

16 A Roughly 50 percent.

17 Q Are you a member of AUGS?

18 A No.

19 Q Why not?

20 A Well, I'm a urologist, and so the urologic focus for  
21 female urology is SUFU, society of uro-gynecon- --  
22 urology and gyne- -- and -- female urology. And I'm a  
23 member of the AUA, but I'm not a member of AUGS. I have  
24 gone to several AUGS meetings in the past. The last one  
25 was this last October.

1 Q And what does AUGS stand for?

2 A American Urogynecology Society. If you want me to give  
3 you kind of a history of urogynecology, I can.

4 Q No, that's okay.

5 You've got teaching positions listed on your -- on  
6 Exhibit 2, which is your CV, on the second page.

7 A Yes.

8 Q Let's kind of talk about those. The first one is Ethicon  
9 Endosurgical Institute; correct?

10 A Yes.

11 Q And that obviously is something that is through Ethicon,  
12 the defendant in this case; correct?

13 A Correct.

14 Q How long have you been teaching for Ethicon Endosurgical  
15 Institute?

16 A Well, I started in the '90s, and then probably the last  
17 course I gave, I don't know the year. 2013 perhaps.

18 Q So you were doing that for roughly 15, 16 years?

19 A Yes.

20 Q And who takes those courses?

21 A Urologists and gynecologists take those courses.

22 Q And were you paid for those courses -- to give those  
23 courses?

24 A Yes.

25 Q And Ethicon paid you for that?

1 A Yes.

2 Q And was that done under a contract with Ethicon?

3 A Yes.

4 Q Would that be --

5 A Annual contracts.

6 Q It would be a one-year rolling contract?

7 A Uh-huh.

8 Q And was that -- was that pursuant to what I've seen  
9 called as the consulting agreement?

10 A Yes.

11 Q And that's not a course that's taught for any college?

12 A No, no. But over the years, I have taught courses at  
13 medical schools, in medical schools, and have taught  
14 urologists who are academics how to do these procedures.

15 Q And there's no continuing education given for taking an  
16 Ethicon Endosurgical Institute course, is there?

17 A No. And the reason being is that they don't charge the  
18 participants to go to the courses, so that because  
19 they're -- because they're there without a tuition, they  
20 don't -- they're not allowed to grant CME. Because, to  
21 grant CME, it has to go through a national body that  
22 credentials.

23 Q The question was a little different than that, a little  
24 more simple than that.

25 There's no continuing education given for Ethicon

1 in studies on the inventor's device?

2 A Oh, again, I have no idea. How would I know that  
3 information? I've not heard it.

4 Q Do you think they should?

5 A Should prevent? No.

6 Q Do you know whether Ethicon has any policies in place  
7 that prohibit inventors from participating in studies on  
8 the inventor's device?

9 A I'm not aware.

10 Q Do you think they should?

11 A It's -- I don't have an opinion.

12 Q It doesn't matter to you?

13 A No.

14 Q Doctor, are you aware of how long it took the -- it took  
15 Ethicon to get the TVT-O product to market?

16 A I don't recall the timeline.

17 Q Doctor, what is Provencia?

18 A I don't know.

19 Q Do you know what a failure modes and effect analysis is?

20 A That sounds like an engineering design study to look at  
21 physical properties of different products/materials.

22 Q Have you ever been involved in one of those analyses?

23 A No.

24 Q What should be in a failure modes and effects analysis?

25 MR. KOOPMANN: Objection. Form.

1 THE WITNESS: Well, can you give me a  
2 product or material that you want to apply it to?

3 Q (By Mr. DeGreeff) Mesh. What should be in a failure  
4 mode designs effect analysis for mesh?

5 MR. KOOPMANN: Objection. Form.

6 THE WITNESS: Well, one would be what  
7 its tensile strength is, elongation overload. Those  
8 would be the main ones.

9 Q (By Mr. DeGreeff) Have you ever -- did you review the --  
10 any of the FMEAs in this case?

11 A I've seen some, yes.

12 Q For transvaginal mesh?

13 A Uh-huh.

14 Q Which ones?

15 A Oh, I think Guenther is one. Moalli has some. But  
16 there's Dietz study from Australia that described the  
17 bench loading and elongation.

18 Q You're talking about articles and studies; correct?

19 A Yes. But I -- as far as the -- you mean as far as  
20 corporate documents in terms of what they did prior to  
21 the product being released?

22 Q Yes.

23 A I would glance over them and not -- and not read them.

24 Q All potential hazards should be in the failure modes  
25 effects analysis for TVT; correct?

1 MR. KOOPMANN: Objection. Form.

2 THE WITNESS: Again, I don't know what  
3 that means.

4 Q (By Mr. DeGreeff) You don't know what a design failure  
5 modes effect analysis is?

6 A Well, I know -- I know what the term is, but when you're  
7 saying -- there's a difference between in vivo and ex  
8 vivo. If you're talking about bench testing products  
9 that the stresses that are put on them are greater than  
10 the physiologic stress in the body, I don't think those  
11 are relevant.

12 I mean, it's fine to do the studies to get a sense  
13 of what the burst strength is of mesh, but it's never  
14 going to be seen after it's deployed.

15 Q And you don't find those studies relevant, or those  
16 relevant?

17 A Well, it has a relevance, but it doesn't have a high  
18 significance.

19 Q You don't find them significant?

20 A It has a significance. I can't -- I'm not going to give  
21 you a degree of significance.

22 Q You didn't rely on them in giving your opinions in this  
23 case; fair?

24 A Well, when I looked at them, I want to make sure that the  
25 stressors of these meshes, after they're deployed in the

1       there was a surgical misadventure and, say, the mesh was  
2       placed through the wall of the bladder, then I would have  
3       to go after all that area that was involved.

4             But there's no reason to chase all of it out of the  
5       body because it's -- it's biologically inert where it is  
6       and doesn't need to be done.

7    Q    (By Mr. DeGreeff) Do you believe that the mesh used in  
8       TVT-R is biologically inert?

9    A    I think the -- there's a local inflammatory effect  
10       initially, which induces fibrosis, some scarring, some  
11       collagen deposition, angiogenesis into the -- into the  
12       monofilament, and then it settles down over time.

13   Q    So you believe that long-term the -- the transvaginal  
14       mesh used in the TVT products is biologically inert?

15                   MR. KOOPMANN: Objection. Form.

16                   THE WITNESS: I don't know your  
17       definition of inert, but I would use the word quiet. I  
18       have patients who are out 15 years from slings that I  
19       have done and I've examined them and they're asymptomatic  
20       and they have great results, and they're not concerned  
21       with the sling in their body. It's not bothering them.

22   Q    (By Mr. DeGreeff) Doctor, what's the definition of  
23       inert?

24   A    Well, inert is nonactive.

25   Q    So your definition of inert is nonactive?

1 A Yeah. That there's nothing going on.

2 Q So you believe that long-term transvaginal mesh is  
3 nonactive within a woman's body?

4 A In the vast majority of cases, I would say yes.

5 Q So when you remove mesh, you sometimes make the decision  
6 to leave portions of the mesh in because you believe  
7 long-term it's nonactive within a woman's body?

8 A Well, the only reason to remove a portion of mesh is if  
9 they are symptomatic in that area. So if one area  
10 there's a trigger point and they have pain and they  
11 haven't responded to conservative measures, you can  
12 remove the sling in that location, but you could leave  
13 the contralateral side alone if it's not bothering them.  
14 In fact, if you leave the majority of the sling in place,  
15 there's a good chance they'll remain continent.

16 Q So, Doctor, you have done TVT-R removal surgeries,  
17 correct, whether it was removing all of it or part of it?

18 A Along with multiple other companies, yes.

19 Q And you've done TVT-O removal surgeries, I'm assuming?

20 A Just portions. Just, again, the exposed area.

21 Q But you've done explant surgeries based on complications  
22 caused by TVT-O; is that fair? Not caused -- strike  
23 that. I know you probably aren't going to like that  
24 word.

25 You've done remove- -- you've done explant surgeries



1 of TVT-Os due to complications; correct?

2 MR. KOOPMANN: Objection. Form.

3 THE WITNESS: I have removed sections

4 of TVT-Os for exposure. I can't remember any for any

5 other reason.

6 Q (By Mr. DeGreeff) And is that something you track?

7 A Oh, I -- well, I track all my patients. I see them -- I

8 try to see them on an annual basis, and if they don't

9 agree, I try to make it every other year.

10 Q So do you have something in your office where you track

11 the reason for each removal and what product it is you're

12 removing?

13 A Their medical records.

14 Q Is that a list you would keep in your office somewhere?

15 A It's one I could retrieve.

16 Q So you have a list currently kept in your office of the

17 product you removed and with -- with the reason for

18 removal?

19 A No, I don't have a list.

20 Q And how many TVT-O removal surgeries have you done?

21 A Well, partial TVT-O, I would say a half dozen maybe.

22 Q What about TVT-R?

23 A Same. About a half dozen.

24 Q What about TVT-S?

25 A Maybe three or four.

1 Q So in your entire time working with transvaginal mesh,  
2 between TVT, TVT-O, and TVT-S, you believe you've only  
3 done 15 to 16 removal surgeries?

4 A I'm sure I've removed 35, 40 other products that are  
5 either transobturator or retropubic slings.

6 Q So you've only done 50 total removal surgeries in your  
7 time working with transvaginal mesh?

8 A Do you -- are you including POP repair, like Prolift or  
9 elevate, Apogee, Perigee, the other products?

10 Q Well, I was asking specifically about TVT, but sure, we  
11 can talk about those too.

12 A I mean, I don't keep numbers of it, but I've removed each  
13 of those products in the past.

14 Q That was going to be my question. Where's the tracking  
15 data on TVT-Rs that were removed, on the number of  
16 explants you've done?

17 A What do you mean by "tracking data"?

18 Q Is that something you keep track of in your office?

19 A No, I don't keep track of the numbers.

20 Q How long have you been doing removal surgeries? When did  
21 you first start doing them?

22 A Well, again, when you use the word "removal," I'll take  
23 out a specific area that may be exposed, or if there's a  
24 specific trigger point area of pain, I'll remove that  
25 part.

1 Q Are those included in the six, six, and three?

2 A Yes. But I mean, the -- it's -- these numbers are not --  
3 are not exact, by any means. I don't keep a log of them.

4 Q Okay. How many days a week do you operate, Doctor?

5 A Well, I don't know what you mean by operations. I do  
6 operations on Wednesdays in the hospital. I do  
7 operations on Tuesdays in my surgery center. And I do  
8 procedures on Mondays, but they could be any day of the  
9 week. I could do them night, weekend. So it varies on a  
10 week-to-week basis.

11 Q So you don't have certain designated surgery days or  
12 times?

13 A I do. Wednesdays for surgeries at the hospital, and  
14 Tuesdays in my surgery center.

15 Q Okay. And do you do them all day, or what's the --

16 A Depends on how many. As little as two or as many as all  
17 day.

18 Q Okay.

19 A Into the night.

20 Q And we already talked about the fact that 50 percent of  
21 your practice is with men; right?

22 A Yes.

23 Q What percentage of your practice is related to treatment  
24 of stress urinary incontinence and POP?

25 A Before the mesh litigation, it was at least 50 percent of

1 my entire practice was. At that point I was probably  
2 seeing one-third males and two-thirds females. But  
3 because of the shrinking volume of women who seek care  
4 for these problems, I do less and less each year.

5 Q And what percentage of your practice is related to  
6 treating TVM complications?

7 A Oh, less than 1 percent.

8 Q What percentage of your practice is related to the  
9 surgical treatment of TVM complications?

10 A Oh, I'd say less than 1 percent at this point. I don't  
11 see them that often.

12 Q Doctor, do you do anything within your office to track  
13 what percentage of the women that you do implants in are  
14 lost to follow-up?

15 A No.

16 Q Do you know what the national average is?

17 A No.

18 Q Do you know what the national average is on complications  
19 related to following implant surgeries with TVM?

20 A Oh, there's several papers that provide those numbers.

21 Q Certainly greater than 1 percent, isn't it?

22 A I think it's about 3 and a half percent.

23 Q So you believe 3 and a half is the rate?

24 A One recent paper I reviewed, that was the rate of  
25 complications that required something to be done.

1 Q Ever seen any others that's different?

2 A Oh, it's all -- it depends on what study and what cohort.

3 If you happen to be a referral center, you're going to

4 see a lot more because a lot of gynecologists aren't

5 comfortable with doing repairs or revisions.

6 Q And a lot of patients aren't comfortable going back to

7 the person who put in an implant that gave them

8 complications; fair?

9 A That's -- complications in general, for all of medicine,

10 a lot of times patients have unrealistic expectations and

11 will go elsewhere when they don't have exactly the

12 outcome that they want. That's very common, not just in

13 this.

14 Q Okay.

15 A It's common with all complications.

16 Q So it's typical for anybody -- any surgeon to have a

17 significant loss to follow-up; is that fair?

18 A It really -- it depends on what community you're in. If

19 there are -- if you're in a smaller community and there's

20 less choices of where to go, a lot of times, if a patient

21 has a complication and doesn't see you, they'll see one

22 of your colleagues, and they'll -- we can discuss it,

23 they'll -- you'll find out about it. There's many a time

24 where I've called a physician to tell them that a patient

25 of theirs came in and this was their concerns.

1 resolve in some patients, is a risk associated with TVT  
2 devices?

3 A It's associated with all pelvic surgery, whether a device  
4 is used or not.

5 Q Do you agree that it's associated with TVT devices?

6 A Directly, I can't prove that it's directly associated.

7 Q You agree that chronic pain in the groin, thigh, leg,  
8 pelvis and/or -- pelvic and/or abdominal area is a risk  
9 associated with TVT devices?

10 A Slings that go through muscle can cause some -- chronic  
11 pain. Rarely, but can cause chronic pain, and through --  
12 you're talking about transobturator. There's some thigh  
13 pain associated regardless of what product is used. It's  
14 a very small number.

15 Q Do you agree with the statement that chronic --

16 A What I can't -- what I can't agree on is if it caused  
17 chronic pain, why wouldn't every case you do result in  
18 chronic pain? The few cases that patients have chronic  
19 pain after a pelvic surgery, I can't identify a specific  
20 cause of it.

21 Q Doctor, do you agree one or more revision surgeries is a  
22 risk associated with TVT devices?

23 A It's a risk, yes. A low risk, but it is a risk.

24 Q Agree that TVT removal may be needed, and that removal  
25 may require significant dissection?

1 A Depending on the cause, it's a possibility.

2 (Discussion off the record.)

3 EXAMINATION

4 BY MR. KOOPMANN:

5 Q Dr. Grier, you reviewed case-specific medical records in  
6 connection with forming your opinions on the cases in  
7 which you were asked to form case-specific opinions;  
8 correct?

9 A Yes, yes.

10 Q And you reviewed those records before you drafted those  
11 reports; correct?

12 A Yes.

13 Q The reliance list that Counsel was asking some questions  
14 about, did you come up with the title of that document?

15 A No.

16 Q Okay. Do you use the term "reliance list" in your  
17 practice?

18 A Not at all.

19 Q Is it your understanding that that's a list of materials  
20 that one of the law firms involved in this litigation has  
21 sent you over the years?

22 A Yes.

23 Q And in your reports regarding the TVT and TVT-O  
24 midurethral slings that we've marked as Exhibit 14, and  
25 you report regarding the TVT-Secur slings, did you cite a

1 number of articles and position statements and  
2 peer-reviewed literature and things like that?

3 A Yes, I did.

4 Q Okay. And are those the materials that you're primarily  
5 relying on in support of your opinions regarding --

6 A Yes.

7 Q -- these devices?

8 A Yes.

9 Q The FDA guidance document that some questions were asked  
10 about very early in the deposition, that's something that  
11 you considered in forming your opinions, but it isn't all  
12 you considered in judging the adequacy of the  
13 instructions for use for the TVT, TVT-O, and TVT-Securs;  
14 correct?

15 A That's correct.

16 Q You also considered your use of those products throughout  
17 the past?

18 A Yes.

19 Q And you considered the sort of results that you achieved  
20 in treating patients with those products; correct?

21 A Yes.

22 Q Did you also consider the complications that you saw  
23 develop in your practice from your use of those products?

24 A Yes.

25 Q And all of that went into forming your opinions regarding



1 the adequacy of the warnings in --

2 MR. DEGREEFF: Objection. Form.

3 Q (By Mr. Koopmann) -- in the IFUs for the TVT, TVT-O, and  
4 TVT-Secur?

5 A That's correct.

6 MR. DEGREEFF: Object to the form.

7 Q (By Mr. Koopmann) And did your analysis and your reading  
8 of the literature that you cited in your reports for the  
9 TVT, TVT-O, and the TVT-Secur, and the efficacy and  
10 complications discussed in that literature, also go into  
11 your analysis of the adequacy of the warnings in the IFUs  
12 for the devices we're here to talk about today?

13 MR. DEGREEFF: I'm going to object to  
14 form. Do you just want to give me a running objection on  
15 leading?

16 MR. KOOPMANN: Sure.

17 MR. DEGREEFF: Okay. Running  
18 objection on the fact that all of these questions are  
19 leading.

20 THE WITNESS: Yes. I considered  
21 all -- all that information in -- in determining what I  
22 think is appropriate for the IFU.

23 Q (By Mr. Koopmann) And the opinions that you set forth in  
24 the reports we've marked as Exhibit 14 and 15 regarding  
25 the TVT, TVT-O, and TVT-Secur slings, you hold those

1 opinions to a reasonable degree of medical certainty?

2 A Yes.

3 Q You don't hold yourself out to the community as a design  
4 expert; is that fair?

5 A That is fair.

6 Q But are you an expert in urologic surgery?

7 A Yes.

8 Q And are you an expert in the materials used in urologic  
9 surgery?

10 A Yes, I am.

11 Q And you don't hold yourself out to the community as a  
12 warnings expert; correct?

13 A No, I don't.

14 Q But you've used a lot of medical devices throughout your  
15 career?

16 A Yes.

17 Q Dozens, certainly?

18 A Yes.

19 Q Hundreds?

20 A Yes.

21 Q And before you use a medical device, you read the  
22 instructions for use accompanying the device?

23 A I do.

24 Q And after treating patients with devices, you get a sense  
25 of what sort of complications you see?

1 A Yes.

2 Q Okay. And you factored in all of that experience with  
3 the TVT, TVT-O, and TVT-Secur slings in forming your  
4 opinions about the warnings accompanying those devices?

5 A I have.

6 Q You've been provided -- you were asked some questions  
7 earlier about being provided articles, including some of  
8 the articles we've got in front of us here today. But  
9 did Ethicon provide -- or Ethicon's counsel provide all  
10 of these articles the first time that you saw them, or  
11 did you read them in the course of your reading as a  
12 surgeon?

13 A Oh, many of them I read in the course of my reading.

14 Q You were asked some questions about Professor Ulmsten and  
15 payments that he's received. Has Professor Ulmsten's  
16 data regarding the TVT sling been reproduced by many  
17 other studies?

18 A Yes, it has, all around the world. It's the most studied  
19 of all the pubovaginal slings, the urethral synthetic  
20 slings.

21 Q Do you practice evidence-based medicine?

22 A I do.

23 Q And what does that mean?

24 A That means what I choose to provide for my patients has  
25 scientific scrutiny and is as safe and efficacious as

1           what is the standard of care.

2       Q     And are there different levels of evidence?

3       A     There is different levels of evidence. From the bottom,  
4           which is anecdotal reporting, to the top, which is, say,  
5           Cochrane review, meta-analysis, systematic reviews.

6       Q     Where do internal company emails fall on the hierarchy of  
7           levels of evidence?

8       A     They don't fall at all, in any of it.

9       Q     Where do failure modes and effects analyses fall in the  
10          hierarchy of levels of evidence?

11      A     They don't fall at all in the levels of evidence.

12      Q     The opinions that you've expressed in your reports  
13           regarding the safety and efficacy of the TVT, TVT-O, and  
14           TVT slings, are those opinions based in part on your  
15           education, including your medical school and residency?

16      A     Yes.

17      Q     Is it also based on continuing ed courses?

18      A     Yes.

19      Q     Are those opinions about the safety and efficacy of the  
20           devices based on your clinical training and experience?

21      A     Yes.

22      Q     Are those opinions about the safety and efficacy of the  
23           devices based on your review of the peer-reviewed  
24           literature, book chapters, podium, and poster  
25           presentations and abstracts?

1 A Yes.

2 Q Are they also, your opinions, based on professional  
3 society position statements?

4 A Yes.

5 Q Are they also based to some extent on ongoing discourse  
6 between yourself and your colleagues regarding these  
7 devices?

8 A That is true.

9 Q And your opinions are based in part on your review of  
10 complications discussed in the literature and those that  
11 you've seen in your practice?

12 A Yes.

13 Q Are the complications that you've seen in your practice  
14 consistent with the warnings that you see listed in the  
15 adverse reactions section of the IFUs for the TVT and  
16 TVT-O and TVT-Secur prior to 2015?

17 A Yes, they're consistent.

18 Q Is chronic pain a risk of any pelvic floor surgery?

19 A Yes, it is.

20 Q It is a risk of the Burch procedure?

21 A Yes, it is.

22 Q It is a risk of pubovaginal sling procedures?

23 A Yes, it is.

24 Q Is dyspareunia a risk of any pelvic floor surgery?

25 A Yes.

1 Q And are any complications that occur after any surgery --  
2 do they have the potential to be temporary or chronic?

3 A Yes.

4 Q And do any complications that occur following any pelvic  
5 floor surgery have the potential to be mild, moderate, or  
6 severe?

7 A Yes.

8 Q Do you have an opinion as to whether chronic pain and  
9 dyspareunia are common complications with any pelvic  
10 floor procedures, that all pelvic floor surgeons are  
11 expected to know?

12 A Yes.

13 Q And what is that opinion?

14 A That opinion is very common, and every pelvic floor  
15 surgeon knows that it is a possible complication.

16 Q When you were teaching professional education courses for  
17 Ethicon, did any of your colleagues ever express any  
18 concern about the complications listed in the IFU?

19 A Well, yes, we discussed it. We would discuss it about --  
20 just about every meeting.

21 Q Did they express any concerns about the complications  
22 they saw listed?

23 A No. They're known and expected.

24 Q How many TVT slings would you say you've implanted, if  
25 you could estimate?

1 A Probably 1,500.

2 Q How many TVT retropubics? Let me be more specific.

3 A At least 500.

4 Q And how many TVT-O slings have you implanted, if you  
5 could estimate?

6 A Another 500.

7 Q And how many TVT-Secur slings would you say you've  
8 implanted?

9 A Oh, probably between 50 and 75.

10 Q How do the complications that you've seen in your  
11 practice from the TVT, TVT-O, or TVT-Secur slings compare  
12 with the complications reported in the literature?

13 A They're very similar.

14 Q And how do the complications that you've seen -- strike  
15 that.

16 Is it basic medical and surgical knowledge that  
17 postsurgical pain can be chronic or temporary?

18 A Yes.

19 Q Is it basic surgical knowledge that, when an adverse  
20 reaction occurs, further surgery may be required to  
21 correct it?

22 A Yes.

23 Q And did you know, prior to ever putting in a TVT, TVT-O,  
24 or TVT-Secur sling in a patient, that tissue in-growth  
25 would occur in the pores of the sling?

1 A Yes.

2 Q And based on that understanding, did you also have an  
3 understanding that if, for some reason, part of that  
4 sling needed to be removed, that dissection would be  
5 required?

6 A Yes.

7 Q Did you have many patients who experienced no  
8 complications in connection with a TVT surgery?

9 A Yes.

10 Q And is the same true for TVT-O surgeries?

11 A Yes.

12 Q And is the same true for TVT-Secur surgeries?

13 A Yes.

14 Q When you did have a patient that received one of those  
15 slings who had a complication, did you treat those  
16 complications?

17 A Yes.

18 MR. DEGREEFF: I hope so.

19 Q (By Mr. Koopmann) And you were asked some questions  
20 earlier about follow-up of your patients in your  
21 practice; is that right?

22 A Yes.

23 Q From time to time, patients don't return to you; that's  
24 true?

25 A That is true.



1 Q Okay. And that's true of any doctor, presumably?

2 A It is true of all of us, yes.

3 Q When patients go to other doctors after they have a  
4 complication following one of your surgeries, do you  
5 often learn about the fact that they went to another  
6 doctor?

7 A Yes.

8 Q And how do you do that?

9 A They usually out of courtesy will call me, or if the  
10 reverse is true, I will call them.

11 Q Can you think of a single randomized control trial that  
12 says the TVT mesh degraded or was cytotoxic?

13 A No.

14 Q And does that apply to the TVT-O sling mesh and the  
15 TVT-Secur mesh?

16 A I know of no randomized control trials that show any  
17 degradation in any of the mesh products.

18 Q They all have the same mesh; right?

19 A For this line of -- for Ethicon, yes, they're all the  
20 same weave, same monofilament.

21 Q For those company documents that you were provided and  
22 read, did any of them change your opinions that you  
23 formed based upon the peer-reviewed literature that  
24 you've reviewed and your experience using the slings?

25 MR. DEGREEFF: I'm going to object to

1 the form. He said he didn't read any review.

2 THE WITNESS: No, I didn't -- none of  
3 them changed my opinions.

4 Q (By Mr. Koopmann) And while Ethicon's counsel may have  
5 sent you some articles in the course of your work in this  
6 litigation, did you also do your own searches for  
7 articles and literature?

8 A Yes.

9 Q You don't think chronic pain occurs with any of the TVT  
10 family of products due to any defect in the mesh;  
11 correct?

12 A That's correct.

13 Q You said that, with respect to -- I think it was  
14 stiffness, you said there was a point at which you would  
15 see diminishing returns if you had a very elastic sling.

16 What did you mean by that?

17 A Well, if --

18 MR. DEGREEFF: I'm going to object to  
19 form. I think that misstates.

20 THE WITNESS: Do I answer?

21 Q (By Mr. Koopmann) Yes.

22 A So if a mesh is too soft and has very, very little  
23 stiffness or integrity, it no longer supports the tissues  
24 that it's -- that it's designed to support.

25 Q Okay. Is it more lucrative for you to do surgery or to

1 give lectures for device companies?

2 A To do surgery and be in the office.

3 Q So why is it that you've devoted a significant amount of  
4 time to giving lectures for device manufacturers or  
5 pharmaceutical manufacturers?

6 A Because I enjoy teaching, and I like the collaboration  
7 with other physicians around the country, and I find it  
8 to be professionally enhancing.

9 Q In what way?

10 A Well, because I've developed a network of friends around  
11 the country, of colleagues that I can call if I have a  
12 problem with a particular patient. Some of the brighter  
13 minds that are in our profession. And it also -- it  
14 requires me to stay vigilant in terms of training and  
15 study.

16 Q Counsel asked a question about RCTs that have the primary  
17 end point of safety regarding the TVT.

18 My question for you is, do all or almost all of the  
19 RCTs that you have reviewed on the TVT and TVT-O and  
20 TVT-Secur products discuss complications?

21 A Yes. It may not be the primary outcome, but every one of  
22 them comments on percentages of complications, adverse  
23 outcomes, and issues about pain.

24 Q You were asked some questions about chronic pain  
25 associated with the TVT sling, and one of the articles

1 that you had out a few minutes ago was this Tommaselli  
2 systematic review and meta-analysis.

3 A Yes.

4 Q That's an article that you reviewed and relied on in  
5 forming your opinions?

6 A Yes.

7 Q And in that study, there were 3,974 retropubic TVT -- I'm  
8 sorry -- retropubic sling patients?

9 A Yes. And -- well, it was retropubic and transobturator,  
10 total.

11 Q Right. But if you look at Table 3 of that study --  
12 Table 3.

13 A Got it.

14 Q There were 3,974 total retropubic patients in that study?

15 A Yes.

16 Q And then there were a total of 2,432 transobturator  
17 patients?

18 A That's correct.

19 Q And then on the next page, from the right-hand column, it  
20 talks about tape-related long-term complications?

21 A Yes. It was --

22 Q And they say there, "Persistent or chronic pain was  
23 reported by 13 patients for the retropubic midurethral  
24 sling group and 30 patients for transobturator  
25 midurethral sling patients"; correct?

1 A Yes.

2 Q And so 13 patients --

3 A Over 3974.

4 Q -- divided by 3974 is a rate of chronic or persistent  
5 pain of .3 percent; correct?

6 A That's correct.

7 Q And for 30 patients with the transobturator midurethral  
8 slings, divided by 2,432 patients with transobturator  
9 midurethral slings, that would yield a persistent or  
10 chronic pain rate of 1.2 percent; correct?

11 A Yes.

12 Q One of the articles you have in your binder is an article  
13 by Jonsson-Funk, et al.?

14 A Yes.

15 Q That study looked at 188,454 women who underwent a  
16 midurethral sling procedure?

17 A Yes.

18 Q And that study showed the nine-year cumulative risk of  
19 sling revision or removal was 3.7 percent?

20 A Yes. Over nine years.

21 Q And they found that the nine-year risk of sling revision  
22 removal for mesh erosion was 2.5 percent; right?

23 A Yes.

24 Q You've got a study here by Cecile Unger. Is that a study  
25 that you reviewed and relied on in forming your opinions

1 in this case?

2 A Yes.

3 Q And did you also review and rely on the Jonsson-Funk  
4 study in forming your opinions in these cases?

5 A The previous study, yes.

6 Q In that Unger study, they looked at 3,307 women who  
7 underwent sling placement; is that right?

8 A Yes.

9 Q And they found that 89 women underwent sling revision?

10 A Yes. 2.7 percent.

11 Q And if you do the math there, the rate of sling revision  
12 for erosion was 0.57 percent?

13 A That's right.

14 Q And the rate of --

15 A Pain is 0.21 percent.

16 Q The rate of vaginal pain or dyspareunia causing sling --  
17 or necessitating sling revision?

18 A Yes.

19 MR. DEGREEFF: Can I see those,  
20 Doctor, the ones you just spoke about?

21 THE WITNESS: Oh, it was this one  
22 here.

23 MR. DEGREEFF: Is this the only one  
24 you were just talking about, or was there another one?

25 THE WITNESS: No, that was Funk I

1 think you had there.

2 MR. DEGREEFF: Tommaselli, what was  
3 the other one?

4 THE WITNESS: Jonsson-Funk.

5 MR. DEGREEFF: Thank you.

6 THE WITNESS: This is Welk.

7 Q (By Mr. Koopmann) You also reviewed a study by Welk and  
8 relied on that in forming your opinions in these cases?

9 A Yes.

10 Q And this study was a population-based retrospective  
11 cohort study that included all adult women undergoing an  
12 incident procedure for SUI with synthetic mesh in  
13 Ontario, Canada, from April 1st, 2002, through  
14 December 31, 2012; is that right?

15 A Yes.

16 Q And the number of those women was 59,887?

17 A Yes.

18 Q And the author's conclusion was that ten years after SUI  
19 mesh surgery, 1 of every 30 women may require a second  
20 procedure for mesh removal or revision?

21 A That's their conclusion, yes.

22 Q So turn to Page E-3, the primary analysis section. It  
23 said, overall 1,307 women, or 2.2 percent underwent mesh  
24 removal or revision a median of 0.49 years after  
25 receiving a mesh implant for SUI. The sling complication

1 was treated by the same surgeon responsible for the  
2 original procedure in 812 of the 1,307 cases, which was  
3 62.1 percent; is that right?

4 A Correct. Yes.

5 Q You also had a study by Nguyen; is that right?

6 A John Nguyen, yes.

7 Q Nguyen. And that's a study that you relied on in forming  
8 your opinions in these cases?

9 A Yes.

10 Q And in this Nguyen study, they looked at all female  
11 members of Kaiser Permanente, Southern and Northern  
12 California and Hawaii, who underwent sling procedures or  
13 pelvic organ prolapse surgeries using implanted grafts of  
14 mesh between September 1, 2008, and May 31, 2010; is that  
15 right?

16 A Correct.

17 Q And they looked at 3,747 sling patients; is that right?

18 A Yes.

19 Q And 30 of the 3,747 experienced a vaginal mesh erosion?

20 A Yes.

21 Q And that was a 0.8 percent rate for erosions?

22 A That's correct.

23 Q One of the articles you had earlier was an article by  
24 Schimpf, et al.; is that right? It's right here.

25 A Okay.



1 Q And that Schimpf study was a systematic review and  
2 meta-analysis of randomized control trials from 1990  
3 through April 2013, with a minimum of 12 months of  
4 follow-up?

5 A Yes.

6 Q And the RCTs were comparing the sling procedure for SUI  
7 to another sling or Burch urethropexy?

8 A Correct.

9 Q And they looked at full-length midurethral slings like  
10 the TVT and TVT-O?

11 A Yes.

12 Q And they looked at single-incision slings like the  
13 TVT-Secur?

14 A Correct.

15 Q And if you look at Table 1 on Page 71.E5, they list in  
16 Table E1 the randomized control trials looking at  
17 mini-slings versus any other sling; right?

18 A Yes.

19 Q And all of those mini-sling studies that they looked at  
20 studied the TVT-Secur except one; is that right?

21 A Yes.

22 Q And then in Table 3 of that study, they look at the rates  
23 of adverse events by sling type analyzed from randomized  
24 control trials, and included adverse event studies; is  
25 that right?

1 A Correct.

2 Q And they compare, when possible, transobturator slings  
3 like the TVT-O, mini-slings like the TVT-Secur,  
4 retropubic slings like the TVT retropubic --

5 A Yes.

6 Q -- and the Burch procedure and pubovaginal sling  
7 procedures; right?

8 A Yes.

9 Q And is this table something that you reviewed and relied  
10 on in forming your opinions in this litigation?

11 A I have.

12 Q And the author's conclusion with respect to the  
13 midurethral slings versus the Burch procedure, was that  
14 they suggested either intervention based on the cure  
15 rates -- the objective cure rates and said the decision  
16 should balance on -- balance potential adverse events and  
17 concomitant surgeries; right?

18 A Yes.

19 MR. DEGREEFF: I don't have anything  
20 from Exhibit 4 right here, do I?

21 MR. KOOPMANN: I don't think so.

22 Q (By Mr. Koopmann) Another study you have in your binder  
23 for the TVT and TVT-O general report is a study by  
24 Mohamed Abdel-Fattah; is that right?

25 A Yes.

1 Q And that study looked at -- their objective was to  
2 determine the lifetime risk of undergoing pelvic floor  
3 surgery in a cohort of U.K. parous women, and the  
4 reoperation rates for pelvic floor surgery?

5 A Yes.

6 Q And they ended up looking at 34,631 women?

7 A Yes.

8 Q If you'll turn to Page 5, they talk about some risk  
9 factors for reoperation?

10 A Yes.

11 Q And they found that the -- that 8.8 percent of the women  
12 studied had at least one repeat urinary incontinence  
13 surgery?

14 A Yes.

15 Q And then they also indicate on the right-hand column that  
16 the reoperation rate for urinary incontinence was  
17 3.2 percent in the --

18 A In the midurethral group.

19 Q In the midurethral sling group; right?

20 A Yes.

21 Q And it was 10.7 percent in the abdominal retropubic  
22 surgery group?

23 A Yes.

24 Q Is that a Burch procedure?

25 A That's exactly what that is.

1 Q In your TVT-Secur general report binder, you have a  
2 systematic review and meta-analysis by Colin Walsh; is  
3 that right?

4 A Yes. Yes. 2011?

5 Q And that study looked at -- well, it was published in  
6 2011; correct?

7 A Yes.

8 Q And it looked at 1,178 women who received the TVT-Secur?

9 A Yes.

10 Q And that was in ten studies?

11 A Ten studies.

12 Q And they found both the objective and subjective cure  
13 rate at 12 months was 76 percent?

14 A Yes.

15 Q And they found a 2.4 percent incidence of mesh exposure  
16 in the first year?

17 A Yes.

18 Q And a 1 percent rate of dyspareunia?

19 A Yes.

20 Q And a return to theater for complications rate of  
21 0.8 percent?

22 A Yes.

23 Q Is this a study that you reviewed and relied upon in  
24 forming your opinions about the TVT-Secur sling?

25 A Yes.

1 Q Did you also review a study by Mohamed Abdel-Fattah,  
2 which was a meta-analysis regarding single-incision  
3 mini-slings?

4 A Yes. But let's find it. Oh, here it is. No. 1. Yes.

5 Q In that study, they looked at a total of 758 women in  
6 nine randomized control trials with a mean follow-up of  
7 nine and a half months?

8 A Yes.

9 MR. DEGREEFF: Hey, Barry, I'm going  
10 to have to object. I mean, all you're doing is sitting  
11 here reading documents to him. I mean, if you want to  
12 ask him questions about the documents, that's fine, but I  
13 feel like you're just reading them to him. I think  
14 that's leading.

15 Q (By Mr. Koopmann) Single-incision midurethral slings  
16 were associated with significantly lower patient reported  
17 and objective cure rates at 6 to 12 months compared with  
18 standard midurethral slings.

19 Is that what it reports?

20 A And that was my experience in a study that I contributed,  
21 that there was an early -- less pain initially postop,  
22 but at the one-year mark was the same as the longer  
23 slings.

24 MR. DEGREEFF: Objection. Form.

25 Q (By Mr. Koopmann) Then on Page 471, they note that the

1 single-incision midurethral sling meta-analysis was  
2 possible for studies comparing TVT-Secur versus standard  
3 midurethral slings; right?

4 A Yes.

5 MR. DEGREEFF: Objection to form.

6 Q (By Mr. Koopmann) And they noted that a trend towards  
7 lower rates of patient reported success and objective  
8 cure with the TVT-Secur was seen; however, it did not  
9 reach statistical significance. Is that right?

10 A Yes.

11 MR. DEGREEFF: Objection. Form.

12 Q (By Mr. Koopmann) And what does that mean, that it did  
13 not reach statistic significance?

14 MR. DEGREEFF: You've got to let me  
15 get my objections on the record before you answer,  
16 Doctor.

17 THE WITNESS: Well, what it means is  
18 that --

19 MR. DEGREEFF: Objection. Form.

20 THE WITNESS: -- there wasn't a  
21 statistical difference that was enough to be means tested  
22 that it was significant. The P testing was not high  
23 enough to -- to say that there's a delta here where Secur  
24 was different than the standard midurethral sling.

25 Q (By Mr. Koopmann) Okay. And then in the right-hand

1 column under Quality of Life, it indicates that there was  
2 a trend towards better quality of life score in the  
3 standard midurethral sling group, but it was not  
4 statistically significant; is that right?

5 A Yes.

6 MR. DEGREEFF: Objection for form.  
7 And just to be clear, is my running objection on form  
8 still going for leading?

9 MR. KOOPMANN: I thought it ended  
10 because you started objecting again to leading.

11 MR. DEGREEFF: Well, I actually -- I  
12 think what happened is that I forgot that we had a -- we  
13 had an agreement that I could -- that it was -- I had a  
14 running objection. So if my running objection is still  
15 in place, then I'll stop saying objection to form on  
16 everything.

17 MR. KOOPMANN: I'll put it back in  
18 place now.

19 MR. DEGREEFF: Okay. Thanks.

20 Q (By Mr. Koopmann) So does that basically mean that the  
21 quality of life scores between the standard midurethral  
22 slings and single-incision midurethral slings was no  
23 different?

24 A They're -- they're close enough that they are the same.

25 Q And you've reviewed TVT-Secur-related literature,

1 including randomized control trials, that were both  
2 favorable regarding the sling, and unfavorable?

3 A That's correct.

4 Q Okay. And you factored all of that in, in forming your  
5 opinions about the device?

6 A Yes.

7 MR. JONES: Could we see that one,  
8 that Abdel-Fattah?

9 MR. KOOPMANN: Here, I think I've got  
10 copies.

11 MR. DEGREEFF: Do you have copies of  
12 all of those that you just did that we could have?

13 MR. KOOPMANN: Several.

14 MR. DEGREEFF: Okay.

15 MR. KOOPMANN: Do you want one to take  
16 with you?

17 MR. DEGREEFF: Yeah.

18 MR. KOOPMANN: Do you want it now or  
19 can I do it after we're done?

20 MR. DEGREEFF: We can do it after  
21 we're done. That's fine.

22 MR. KOOPMANN: I think those are all  
23 the questions I have for you, Dr. Grier. I may have some  
24 more if Counsel has some more.

25 ////



1 (Recess from 9:12 p.m. to  
2 9:18 p.m.)

3 FURTHER EXAMINATION

4 BY MR. DEGREEFF:

5 Q Doctor, you mentioned earlier, I believe when Counsel was  
6 questioning you, that there was some discord among your  
7 colleagues about -- regarding transvaginal mesh.

8 Do you remember giving that testimony?

9 A I don't recall. Discord?

10 Q That's the word you used. Because that's not even a word  
11 I would ever come up with.

12 A There's differing opinions in terms of techniques and how  
13 to place it and some people will come up with the idea of  
14 putting in drains. It's different iterations of the same  
15 surgery that may not follow the IFU. So occasionally  
16 someone would come up with a concept like that.

17 Q Doctor, you're aware that a number of your colleagues  
18 believe that transvaginal mesh is not safe?

19 MR. KOOPMANN: Object to form.

20 THE WITNESS: I think very few of my  
21 colleagues agree to that. If you look at the position  
22 papers by the different societies, they're -- they feel  
23 that it has efficacy and safety, and it should still be  
24 used.

25 Q (By Mr. DeGreeff) I guess my question was a little

Douglas Grier, M.D.

1 STATE OF WASHINGTON ) I, Cindy M. Koch, CCR, RPR, CRR,  
 ) ss CLR, a certified court reporter  
 2 County of Pierce ) in the State of Washington, do  
 hereby certify:

3  
 4

5 That the foregoing deposition of DOUGLAS GRIER, M.D.  
 was taken before me and completed on March 22, 2016, and  
 thereafter was transcribed under my direction; that the  
 6 deposition is a full, true and complete transcript of the  
 testimony of said witness, including all questions, answers,  
 7 objections, motions and exceptions;

8 That the witness, before examination, was by me  
 duly sworn to testify the truth, the whole truth, and  
 9 nothing but the truth, and that the witness reserved the  
 right of signature;

10

11 That I am not a relative, employee, attorney or  
 counsel of any party to this action or relative or employee  
 of any such attorney or counsel and that I am not  
 12 financially interested in the said action or the outcome  
 thereof;

13

14 That I am herewith securely sealing the said  
 deposition and promptly delivering the same to  
 Attorney David DeGreeff.

15

16 IN WITNESS WHEREOF, I have hereunto set my  
 signature on the 25th day of March, 2016.

17

18

19

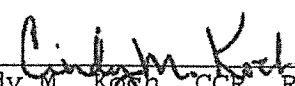
20

21

22

23

24

  
 Cindy M. Koch, CCR, RPR, CRR, CLR  
 Certified Court Reporter No. 2357

